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Declaration pursuant to 37 CFR § 1.132, Date: 27 Oct. 2004

Exhibit I

Curriculum Vitae

Florian Kern MD, PhD

August 2004

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Jan 2001 Appointment as senior registrar and Head of the Clinical Immunology Laboratory of the Institute of Medical Immunology at Charité

Nov 1993 Award of PhD (Medical Doctor – doctor medicinae)
 "Histamine Release from basophiles and granulocytes in atopic children"
 (Prof. Dr. med. D. Reinhardt, Children's Hospital, Heinrich-Heine University of Düsseldorf.)

Education and Exams

1996 Official recognition by the German Medical Board (Ärztchammer) of the completion of two years of training in Internal Medicine

1993 Part one and two of the American medical licensing examination (ECFMG/USMLE)

1990 Final Medical State Exam („Drittes Staatsexamen“) at the Heinrich-Heine University of Düsseldorf

1989/90 „Practical Year“ in the United States and UK. Four months in General Medicine at the Grady Memorial Hospital (Dr. K. Walker) in Atlanta Georgia (USA), four Months in Surgery at the Southamptom General Hospital (Mr. McGinn), UK, and four months in Dermatology at the Westminster Hospital (Dr. R. Staughton) in London, UK.

1985 - 1989 Medical School, Universities of Montpellier, Tübingen, and Düsseldorf

Professional/Employment Experience: I. Scientific/Academic

Current position Senior research fellow at Institute of Medical Immunology, Head of "Pathogen specific T-cells" Group

Mar 2002 Habilitation, Privatdozent in Immunology (Status of a university lecturer but without professorial appointment)

May 1995 – Jan 2001 Staff Scientist at the Institute for Medical Immunology, Charité, Medical Faculty of the Humboldt-University of Berlin Institute for Medical Immunology, Involvement in specialized clinical diagnostics (Special Immunology), teaching of medical and biology students, immunological research projects. Supervision of

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medical and biology PhD students. Research focus: T-lymphocyte response against virus infections, T-Lymphocyte-mediated transplant rejection, Development of a procedure for epitope mapping using flow-cytometry in 1997/98 (Publication in Nature Medicine, patents pending). Development of a method for testing T-cell responses to complete proteins using protein-spanning peptide pools. Filing of a total of 3 patent applications in 1998, 1999 and 2000 (currently all in the national phase in US, Japan, Europe). Use of the afore-mentioned procedure for mapping epitopes in the CMV pp65 and IE-1 proteins. Current research focus on T-cell responses to Cytomegalovirus and Mycobacterium tuberculosis. Monitoring of T-cell responses in clinical settings, improvement of diagnostic tools addressing T-cell responses, numerous publications.

Professional/Employment Experience: II. Medical

Current position	Senior registrar at the Institute of Medical Immunology, currently no clinical obligations
Jan 2001 – Dec 2003	Head of Clinical Immune Diagnostics Lab, Institute for Medical Immunology, Charité, Medical Faculty of the Humboldt-University of Berlin. Appointment ended at my own request in order to do full-time research
May 1995 – Jan 2001	Academic Staff at Clinical Immune Diagnostics Lab, Involvement in specialized clinical diagnostics (Special Immunology), development of clinical tests.
1993 - 1995	Assistant medical doctor at the Department of Nephrology/Renal transplantation/Dialysis, Charité, Campus Mitte
1991-1992	Assistant medical doctor at the Department of Nephrology/Renal Transplantation/Dialysis, Charité, Campus Mitte (Klinik für Innere Medizin Theodor Brugsch)

*Florian Kern PhD; CV August 2004***Awards**

- 2001**
- Young Investigator Award, ASTP-Meeting (Transplant 2001), Chicago 2001
- 1998**
- Charité Research Award 1998
- 1993**
- Conference of the EDTA (European Dialysis and Transplantation Association) in Glasgow 1993, 'Young Investigator Award'

Grants:

- 2004 (- 2008)**
1. SFB-Transregio 19 (DFG), Inflammation Myocardopathy – Pathogenesis, Project B1, Use of Molecular Libraries for identifying T-cell epitopes in the proteome of myocarditis inducing enteroviruses (CVB3), (EUR 400.000)
- 2001-2004**
2. Immune Tolerance Network (ITN) T 99A 847751 (EUR 400.000)
- 2000-2003**
3. DFG/FOR 299 (EUR 200.000)

Membership of Societies etc.

Since 1998 Deutsche Gesellschaft für Immunologie (DGfI)

Publications:*1. Papers : Original Peer-Reviewed Articles*

1. Tesfa L, Koch FW, Pankow W, Volk HD, **Kern F**: Confirmation of Mycobacterium tuberculosis infection by flow cytometry after ex vivo incubation of peripheral blood T cells with an ESAT-6-derived peptide pool. Cytometry 60B(1):47, 2004.
2. Pelte C, Cherepnev G, Wang Y, Schoenemann C, Volk HD, **Kern F**: Random Screening of Proteins for HLA-A*0201-Binding Nine-Amino Acid Peptides Is Not Sufficient for Identifying CD8 T Cell Epitopes Recognized in the Context of HLA-A*0201. J Immunol 172(11):6783, 2004.
3. Klecker F, Streitz M, Ay B, Cherepnev G, Volk HD, Volkmer-Engert R, **Kern F**: Analysis of antigen-specific T-cell responses with synthetic peptides-what kind of peptide for which purpose? Hum Immunol 65(5):523, 2004.

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4. Tesfa L, Volk HD, **Kern F**: A protocol for combining proliferation, tetramer staining and intracellular cytokine detection for the flow-cytometric analysis of antigen specific T-cells. *J Biol Regul Homeost Agents* 17(4):366, 2003.
5. Tesfa L, Volk HD, **Kern F**: Comparison of proliferation and rapid cytokine induction assays for flow cytometric T-cell epitope mapping. *Cytometry* 52A(1):36, 2003.
6. Laske N, **Kern F**, Nickel R, Wahn U, Volk HD: No difference in type 1 T-cell immune responses to human cytomegalovirus antigens between atopic children and nonatopic children. *J Allergy Clin Immunol* 112(1):210, 2003.
7. Docke WD, Kiessling C, Worm M, Friedrich M, Pruss A, Weitz M, Prosch S, **Kern F**, Volk HD, Sterry W, Asadullah K: Subclinical activation of latent cytomegalovirus (CMV) infection and anti-CMV immune response in patients with atopic dermatitis. *Br J Dermatol* 148(5):954, 2003.
8. **Kern F**, Bunde T, Faulhaber N, Klecker F, Khatamzas E, Rudawski IM, Pruss A, Gratama JW, Volkmer-Engert R, Ewert R, Reinke P, Volk HD, Picker LJ: Cytomegalovirus (CMV) phosphoprotein 65 makes a large contribution to shaping the T cell repertoire in CMV-exposed individuals. *J Infect Dis* 185(12):1709, 2002.
9. Sabat R, Hoflich C, Docke WD, Oppert M, **Kern F**, Windrich B, Rosenberger C, Kaden J, Volk HD, Reinke P: Massive elevation of procalcitonin plasma levels in the absence of infection in kidney transplant patients treated with pan-T-cell antibodies. *Intensive Care Med* 27(6):987, 2001.
10. Maecker HT, Dunn HS, Suni MA, Khatamzas E, Pitcher CJ, Bunde T, Persaud N, Trigona W, Fu TM, Sinclair E, Bredt BM, McCune JM, Maino VC, **Kern F**, Picker LJ: Use of overlapping peptide mixtures as antigens for cytokine flow cytometry. *J Immunol Methods* 255(1-2):27, 2001.
11. Buttnerova I, Baumler H, **Kern F**, Radtke H, Volk HD, Kiesewetter H, Docke WD: Release of WBC-derived IL-1 receptor antagonist into supernatants of RBCs: influence of storage time and filtration. *Transfusion* 41(1):67, 2001.
12. Bitmansour AD, Waldrop SL, Pitcher CJ, Khatamzas E, **Kern F**, Maino VC, Picker LJ: Clonotypic structure of the human CD4+ memory T cell response to cytomegalovirus. *J Immunol* 167(3):1151, 2001.
13. Babel N, Schwarzmann F, Prang N, Jaeger M, Wolf H, **Kern F**, Volk HD, Reinke P: Association between Epstein-Barr virus infection and late acute transplant rejection in long-term transplant patients. *Transplantation* 72(4):736, 2001.
14. **Kern F**, Faulhaber N, Frommel C, Khatamzas E, Prosch S, Schonemann C, Kretzschmar I, Volkmer-Engert R, Volk HD, Reinke P: Analysis of CD8 T cell reactivity to cytomegalovirus using protein-spanning pools of overlapping pentadecapeptides. *Eur J Immunol* 30(6):1676, 2000.
15. Betts MR, Casazza JP, Patterson BA, Waldrop S, Trigona W, Fu TM, **Kern F**, Picker LJ, Koup RA: Putative immunodominant human immunodeficiency virus-specific CD8(+) T-cell responses cannot be predicted by major histocompatibility complex class I haplotype. *J Virol* 74(19):9144, 2000.
16. **Kern F**, Surel IP, Faulhaber N, Frommel C, Schneider-Mergener J, Schonemann C, Reinke P, Volk HD: Target structures of the CD8(+)-T-cell response to human cytomegalovirus: the 72-kilodalton major immediate-early protein revisited. *J Virol* 73(10):8179, 1999.
17. **Kern F**, Khatamzas E, Surel I, Frommel C, Reinke P, Waldrop SL, Picker LJ, Volk HD: Distribution of human CMV-specific memory T cells among the CD8pos. subsets defined by CD57, CD27, and CD45 isoforms. *Eur J Immunol* 29(9):2908, 1999.

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18. Kern F, Sural IP, Brock C, Freistedt B, Radtke H, Scheffold A, Blasczyk R, Reinke P, Schneider-Mergener J, Radbruch A, Walden P, Volk HD: T-cell epitope mapping by flow cytometry. *Nat Med* 4(8):975, 1998.
19. Hoflich C, Docke WD, Busch A, Kern F, Volk HD: CD45RA(bright)/CD11a(bright) CD8+ T cells: effector T cells. *Int Immunol* 10(12):1837, 1998.
20. Ode-Hakim S, Docke WD, Kern F, Emmrich F, Volk HD, Reinke P: Delayed-type hypersensitivity-like mechanisms dominate late acute rejection episodes in renal allograft recipients. *Transplantation* 61(8):1233, 1996.
21. Kern F, Ode-Hakim S, Vogt K, Hoflich C, Reinke P, Volk HD: The enigma of CD57+CD28- T cell expansion--anergy or activation? *Clin Exp Immunol* 104(1):180, 1996.
22. Kern F, Ode-Hakim S, Nugel H, Vogt K, Volk HD, Reinke P: Peripheral T cell activation in long-term renal transplant patients: concordant upregulation of adhesion molecules and cytokine gene transcription. *J Am Soc Nephrol* 7(11):2476, 1996.
23. Reinke P, Kern F, Fietze E, Docke WD, Ewert R, Emmrich F, Volk HD: Anti-CD4 monoclonal antibody therapy of late acute rejection in renal allograft recipients--CD4+ T cells play an essential role in the rejection process. *Transplant Proc* 27(1):859, 1995.
24. Ode-Hakim S, Kern F, Fietze E, Prosch S, Ewert R, Nugel H, Volk HD, Reinke P: Association between CMV-related graft injury and circulating cytokine-producing CD8+ memory cells. *Transplant Proc* 27(1):951, 1995.
25. Kern F, Ode-Hakim S, Nugel H, Volk HD, Reinke P: CD3+/LFA-1 "bright" T cells represent memory-type effector cells, which, during immune activation in kidney graft recipients, are marked by increased cytokine mRNA levels. *Transplant Proc* 27(1):896, 1995.
26. Ewert R, Kern F, Mutze S, Witt C: [Aspiration of petroleum by a "fire-eater"]. *Pneumologie* 49(6):388, 1995.
27. Reinke P, Fietze E, Docke WD, Kern F, Ewert R, Volk HD: Late acute rejection in long-term renal allograft recipients. Diagnostic and predictive value of circulating activated T cells. *Transplantation* 58(1):35, 1994.
28. Kern F, Docke WD, Reinke P, Volk HD: Discordant expression of LFA-1, VLA-4alpha, VLA-beta 1, CD45RO and CD28 on T-cell subsets: evidence for multiple subsets of 'memory' T cells. *Int Arch Allergy Immunol* 104(1):17, 1994.
29. Kern F, Roberts N, Ostlere L, Langtry J, Staughton RC: Ammoniated mercury ointment as a cause of peripheral neuropathy. *Dermatologica* 183(4):280, 1991.

II. Papers: Review Articles and book chapters

1. Scheffold A, Kern F, "Diagnostische Zytometrie", Ulrich Sack, Attila Tarnok, Gregor Rothe (Eds.), Springer, 2005
2. Cherepnev G, Volk HD, and Kern F. The use of Peptides and Peptide Libraries as T-cell stimulants in Flow-Cytometric studies. In *Cytometry 4th* Zbigniew Darzynkiewicz, Mario Roederer, Hans Tanke (Eds.), *Methods in Cell Biology*, Vol. 75, Elsevier, 2004 (in print) Cherepnev G, Volk HD, Kern F,
3. Gratama JW, Kern F: Flow cytometric enumeration of antigen-specific T lymphocytes. *Cytometry* 58A(1):79, 2004.

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4. Hoffmeister B, Bunde T, Kiecker F, Habedank D, Reinke P, Volk HD, **Kern F**. Measuring T-Cell Reactivity to Cytomegalovirus: State of the Art. In: Prösch S, Cinatl J, Scholz M (eds): New Aspects of CMV-Related Immunopathology. Monogr Virol. Basel, Karger, 2003, vol. 24, pp 122-132
5. Hoffmeister B, Kiecker F, Surel I, Khatamzas E, Schuster V, Volk HD, **Kern F**: Evaluation of the frequency of virus-specific CD8+ T cells by cytokine flow cytometry. Methods Mol Biol 215:59, 2003. Book chapter.
6. Hoffmeister B, Kiecker F, Tesfa L, Volk HD, Picker LJ, **Kern F**: Mapping T cell epitopes by flow cytometry. Methods 29(3):270, 2003. Review.
7. Volk HD, **Kern F**: Insights into the specificity and function of (allo)antigen-reactive T cells. Am J Transplant 1(2):109, 2001. Review.
8. Scheffold A, **Kern F**: Recent developments in flow cytometry. J Clin Immunol 20(6):400, 2000. Review.
9. **Kern F**, Faulhaber N, Khatamzas E, Frommel C, Ewert R, Prosch S, Volk H, Reinke P: Measurement of anti-human cytomegalovirus T cell reactivity in transplant recipients and its potential clinical use: a mini-review. Intervirology 42(5-6):322, 1999.
10. Reinke P, Prosch S, **Kern F**, Volk HD: Mechanisms of human cytomegalovirus (HCMV) (re)activation and its impact on organ transplant patients. Transpl Infect Dis 1(3):157, 1999.

III. Papers: Submitted Articles

1. Tesfa L, Schoenemann C, Koch, FW, Pankow W, Volk HD, **Kern F**. A closer look at CD4 T-cell epitopes in the ESAT-6 protein of Mycobacterium tuberculosis. Submitted 2004

V. Patents

1. WO 99/36568: **Kern F**. et al, Method For Identifying T-cell Stimulating Protein Fragments, International publication date: 22 July 1999, Status: pending
2. WO 00/75180 A3: **Kern F**. et al, Peptides for Vaccination against human CMV, International publication date: 14 December 2000, Status: pending
3. WO 01/63286 A2: **Kern F**. et al, Method for Antigen Specific Stimulation Of T-lymphocytes With Synthestic Peptide Libraries, International publication date: 30 August 2001, Status: pending

VI. Presentations

A. Invited talks (selected)

1. Jam Session on CMV Immunology", March 5, 2004, Badia Benedettina, Istituto G. Gaslini, Genoa, Italy, Title: "Insights into the make up of T-cell responses to CMV using flow-cytometry". (plenary talk)
2. EWGCCA-Meeting in Salamanca/Spain, 25.-27-9.2003. Title: Assessment of lymphocyte function. Should Europe adopt US Guidelines? Tina Kuus-Reichel (Beckman-Coulter, San Diego) and Florian Kern (Charité, Berlin). (round table debate)

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3. Human CMV-Vaccine-Workshop, Feb.6, 2003, University of Liege, Belgium (Organized by B. Rentier and Stanley Plotkin), Leader of discussion section on cellular responses to CMV.
4. Clinical Cytometry Society, Annual Meeting, Keystone-Colorado, 13-15.10.2002, Keystone Colorado, "Measures of T-cell reactivity to CMV in solid organ recipients: applications and limitations". (plenary talk)
5. EWGCCA-Meeting in Urbino (Italy), 19.-22.9.2002, "CMV specific functional assays in cardiac transplants". (plenary talk)
6. EWGCCA-meeting, Urbino 2001, 21.-25.9.2001, "Applications for basic research questions/peptide mapping". (plenary talk)
7. Flow 2000-Meeting, in Woerden (Holland), 16.-17. 11. 2000, "Rapid flow-cytometric screening of CD8+ T-cell responses to entire proteins". (plenary talk)
8. Seminar at Dep. of Medicine, University of Cambridge, Cambridge, 2.11. 2000, "Single peptides, peptide pools, and peptide libraries for the flow-cytometry based mapping and monitoring of antigen specific T-cell responses" (invited seminar)
9. 2nd Symposium on CMV-related Immunopathology, Maastricht, 16-17.9.1999, "Monitoring of specific T cell HCMV reactivity in transplant patients using a novel flowcytometry technique". (plenary talk)
10. Immunogenetics of Allergy: Towards Prevention and Care (IGA), Berlin, 7-9 May 1999, "T cell epitope mapping by flow cytometry". (plenary talk)
11. 6th International Diabetes Intervention Group Workshop, Kopenhagen, 5.12.1998, "Surrogate Markers in Transplantation/Immunotherapy", (plenary talk)
12. Interdisziplinäres Symposium zur CMV-Prävention, Berlin, 11.12.1999, "Monitoring der CMV-spezifischen T-Zell-Antwort", (plenary talk).

B. Abstracts/oral presentations (selected)

1. Annual Meeting of French Society of Immunology in Strasbourg, France (2002). Lydia Tesfa, Hans-Dieter Volk, **Florian Kern**: Comparison of Proliferation and Rapid Cytokine Induction Assays for Flow-cytometric T-cell Epitope Mapping:
2. Transplant 2002 Meeting, Washington DC, 26.4.-1.5.2002: Bunde T, Hoffmeister B, Kiecker F, Lemke M, Ewert R, Reinke P, Hetzer R, Volk HD, **Kern F**. Title: Monitoring of HCMV-specific T-cells in heart/lung transplant patients by using a novel technology with HCMV protein-spanning overlapping pentadecapeptides. [Am J Transplant 2002;2 (Suppl 3):160.]
3. Transplant 2002 Meeting, Washington DC, 26.4.-1.5.2002: Hoffmeister B, Lukowsky A, Ewert R, Reinke P, Hetzer R, Raba K, Kaiser T, Volk HD, **Kern F**. Title: Highly efficient flow cytometric epitope mapping of HCMV-specific T-cells in heart and lung transplant patients.[Am J Transplant 2002;2(Suppl 3):315.]
4. Transplant 2001 Meeting, Chicago: **Kern F.**, Faulhaber N., Bunde T., Volkmer-Engert R., Kretzschmar I., Prösch S., Ewert R., Volk H.-D., Reinke P.. Titel: „Analysis of CD4 and CD8-T-cell reactivity to Cytomegalovirus – measuring reactivity at the total protein and epitope level“. Auszeichnung mit Young Investigator Award der American Association of Transplant Physicians (ASTP)
5. EDTA-Meeting, Glasgow 1993: **Kern F.**, Ode-Hakim S., Nugel H., Döcke W.D., Platzer C., Volk H.D., Reinke P..Titel: „T-cell Cytokine Production in Renal Transplant Recipients With Cytomegalovirus Infection originates from an activated LFA-1-bright

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subset". Auszeichnung mit Junior Author Grant EDTA (European Dialysis and Transplant Association).

6. World Transplantation Conference, Kyoto 1994: **Kern F.**, Ode-Hakim S., Nügel H., Volk H.D., Reinke P..Titel: „CD3+/LFA-1-bright T-cells represent memory-type effector cells, which during immune activation in kidney graft recipients are marked by increased cytokine mRNA levels.“ (Publikation in Transplant Proc 1995;27:896-9.)

C. Abstracts/Posters (selected)

1. 18th American Peptide Symposium (APS), Boston (MA), USA, 2003: Mathias Streitz, Bernhard Ay, Rudolf Volkmer-Engert and **Florian Kern**. Title: "Identification of T-cell epitopes using Spot-synthesized peptides " (continuation).
2. European Peptide Symposium (EPS), Sorrento, Italy, 2002: Mathias Streitz, Andre Paschkewitz, Bernhard Ay, Rudolf Volkmer-Engert and **Florian Kern**. Title: "Identification of T-cell epitopes using Spot-synthesized peptides "
3. CMV-Meeting 2001, Asilomar, Kalifornien: Nolwenn Coudronnière, Anne Hervier, **Florian Kern**, Claude Méric and Emanuelle Trannoy. Title: „Measurement of CD8 T cell responses to cytomegalovirus by intracellular cytokine flow cytometry and ELISPOT. “
4. Keystone-Symposium, Keystone, Colorado 2001: Holden T. Maecker, Holli S. Dunn, Maria A. Suni, Elham Khatamzas, Christine J. Pitcher, Natasha Persaud, Wendy Trigona, Tong-Ming Fu, Barry M. Bredt, Joseph M. McCune, Vernon C. Maino, **Florian Kern**, and Louis J. Picker. Title: "Use of Peptide Mixes for Detecting T Cell Responses to HIV by Cytokine Flow Cytometry."
5. DGFI-Tagung in Hamburg 1996: **Kern F.**, Höflich C., Vogt K., Döcke W.D., Volk H.D.. Titel: „Do CD45RA^{bright} T cells mark an effector subset of activated CD11a^{bright} T cells?“
6. CMV-Meeting 2000, in Brighton, 2000: **Kern F.**, Surel I.P., Faulhaber N., Frömmel C., Schneider-Mergener J., Schönemann C., Reinke P., Volk H.-D.. Titel: „Detection of CD8+ T cell epitopes in the HCMV major immediate early protein using a rapid way of mapping T cell epitopes by flow-cytometry“

*Florian Kern PhD; CV August 2004***Referees:**

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Personal Details

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E-mail:	florian.kern@charite.de
Date of birth:	24 July 1963
Gender:	Male
Nationality:	German
Marital Status:	Married (to Anna Christina Nicholson)
Children:	One (Linus Caspar Nicholson)
Languages:	German, English, French (all fluent)

Education

Postgraduate Qualifications

Oct 2003	Certification as specialist in Immunology (Fachimmunologe) by the German Society of Immunology (DGFI)
Mar 2002	Habilitation Habilitationsschrift: : <i>"Peripheral T-cells in patients following organ transplantation: Graft deterioration and control of cytomegalovirus infection"</i> "Lehrbefugnis" for Immunology (the University recognizes/certifies that I can officially and independently lecture Immunology to medical students)